

## APPENDIX E FUEL SITE RISK ASSESSMENT

The objective of the *risk assessment* is to help operators understand the level of risk they are taking in managing their *fuel facility* for the purpose of taking appropriate risk-control measures.

Risk-ranking approach:

- a) Assign a risk-rank value (3 for high, 2 for medium, and 1 for low) for each of the risk identification categories indicated in the column on the left in Table 1.
- b) Add these values to arrive at the total risk-ranking value for the fuel storage facility.
- c) Based on the Risk-Rate Value, use Table 2 to determine appropriate levels of effort to mitigate risks at the fuel handling facility.

**Table 1.**

RISK IDENTIFICATION CATEGORY	RISK RANK: HIGH (3)	RISK RANK: MEDIUM (2)	RISK RANK: LOW (1)	ASSIGNED RISK- RANK VALUE
<b>ENVIRONMENTAL</b>				
Distance to nearest water course	< 50m	50m-100m	>100m	
Characteristic of soil at the <i>fuel facility</i>	Porous or unknown	Semi-porous	Non-porous clay/bedrock	
Slope of terrain surrounding the <i>fuel facility</i>	>6% slope	2-6% slope	<2% slope	
<b>OPERATIONAL</b>				
Site designation or description	High traffic logging road (main line)	Low traffic logging road (side spur)	No through traffic logging road	
Duration of <i>fuel facility</i> operations	>6 days	2-6 days	<2 days	
Volume of fuel stored at the <i>fuel facility</i>	>4500L	500L-4500L	<500L	
Number of times the <i>fuel facility</i> is used per day	>12 times per day	6-12 times per day	<6 times per day	
Amount of traffic around the <i>fuel facility</i>	>15 people on site	5-15 people on site	<5 people on site	
<b>PREVENTION / PREPAREDNESS</b>				
Distance to additional spill response cache	>60 minutes	15-60 minutes	<15 minutes	
Additional <i>spill control</i>	Tank with no <i>secondary containment</i>	Tank with <i>secondary containment</i>	Tank with <i>secondary containment</i> & additional spill control – graded site	
Last spill response training session for everyone handling fuel	Operator not trained in >2 years	Operator not trained in 1-2 years	Operator trained in last year	
<b>TOTAL RISK-RANK VALUE (total of all the Assigned Risk-Rank Values):</b>				

**Table 2.**

NUMERICAL VALUE	RISK RANKING	RECOMMENDED RISK CONTROL MEASURES
<12	Low Risk	a) No additional control measures necessary.
12-23	Medium Risk	a) Additional control measures should be considered to reduce risk. b) Document inspections.
>23	High Risk	a) Additional controls are necessary to reduce risk. b) Consider moving the fuel facility. c) Document inspections.